

LESSON
7-1

Chapter 7 Quiz Review

Ratios and Rates

Use the table to write each ratio.

1. red and blue T-shirts to green T-shirts

2. purple T-shirts to yellow and green T-shirts

3. blue and green T-shirts to purple and red T-shirts

4. red T-shirts to all other T-shirt colors

Red	24
Blue	42
Green	36
Purple	51
Yellow	60

Write each ratio two different ways.

5. 7:21

6. $\frac{12}{50}$

7. 18 to 10

Write three equivalent ratios for each ratio.

8. 19 to 38

9. 5:3

10. $\frac{20}{24}$

11. A 12-ounce bag of birdseed costs \$3.12. A 16-ounce bag of birdseed costs \$3.84. Which is the better deal? How much money per ounce would you save by buying that size bag instead of the other?

12. There are 60 players on a high school football team. The ratio of juniors and seniors to freshmen and sophomores on the team is 2:3. The ratio of juniors to seniors on the team is 1:2. How many juniors are on the team? How many seniors?

LESSON

7-2

Using Tables to Explore Equivalent Ratios and Rates

Use a table to find three equivalent ratios.

13. 5 to 11

14. $\frac{17}{19}$

15. 8:7

16. 6 to 13

17. 36 to 12

18. $\frac{48}{90}$

Multiply and divide each ratio to find two equivalent ratios.

19. 10:20

20. $\frac{6}{9}$

21. $\frac{118}{66}$

22. 25:100

23. Spring Street Middle School orders 9 calculators for every 12 students. The table shows how many calculators the school orders for certain numbers of students.

Students	12	36	60	96	240
Calculators	9	27	45	72	180

How many calculators do you predict the school would order for 132 students?

LESSON

7-3

Proportions

Find the missing value in each proportion.

24. $\frac{6}{15} = \frac{n}{45}$

25. $\frac{n}{160} = \frac{1}{40}$

26. $\frac{2}{8} = \frac{n}{56}$

$$27. \frac{1}{17} = \frac{0.5}{n}$$

$$28. \frac{8.1}{9} = \frac{n}{15}$$

$$29. \frac{9.1}{7} = \frac{n}{5}$$

30. Use circles and triangles to draw a model for the proportion $\frac{5}{6}$.

31. Use hearts and diamonds to draw a model for the proportion $\frac{3}{4}$.

32. To avoid dehydration, a person should drink 8 ounces of water for every 15 minutes of exercise. How much water should Hahn drink if he cycles for 135 minutes?

33. Leo has entered a reading contest to raise money for charity. His aunt has agreed to pay Leo \$0.13 for every 5 pages that he reads. Leo's uncle has promised to match every whole dollar that Leo collects in the contest with \$1.75. If Leo reads 365 pages, how much money will his aunt donate to the charity? How much will Leo's uncle give to match the aunt's donation?
